

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of a mixed molten salt comprises:

a first heat exchanging means to heat and ~~and/or~~ cool an electrolytic cell body;

an outer frame which is sealed and disposed further surrounding outside of the first heat exchanging means with space; ~~and~~

a decompression or a vacuum insulating zone which is formed in the outer frame; and

a thermometer which measures temperature of the electrolytic bath,

wherein the first heat exchanging means includes a pipe through which a heat exchange medium flows and a heating-cooling apparatus which heats and cools the heat exchange medium based on temperature information of the electrolytic bath supplied from the thermometer.

Claim 2 (Previously Presented): An electrolytic apparatus for molten salt according to claim 1, wherein the electrolytic cell includes a secondary heat exchanging means to heat the electrolytic cell body.

Claim 3 (Canceled).

Claim 4 (Previously Presented): An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of the mixed molten salt according to claim 1 or 2, further comprising:

a support member comprising one of a flange part and an upper lid;

a cover member; and

an electric insulating material and a gas sealing material disposed between the support member and the cover member in the electrolytic cell for simultaneous electric insulation and gas sealing.

Claim 5 (Previously Presented): An electrolytic apparatus for molten salt according to claims 1 or 2, wherein the first heat exchanging means includes a flow line to flow a heat exchanging medium around the electrolytic cell.

Claim 6 (Original): An electrolytic apparatus for molten salt according to claim 5, wherein the heat exchanging means is a highly electric insulating fluid.

Claim 7 (Previously Presented): An electrolytic apparatus for molten salt according to claims 1 or 2, wherein the electrolytic cell is disposed in a box, the box configured to open at an upper part.

Claim 8 (Previously Presented): An electrolytic apparatus for molten salt according to claims 1 or 2, wherein the mixed molten salt comprises of hydrogen fluoride.

Claim 9 (Currently Amended): An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of a mixed molten salt comprises:

a jacket configured to heat and ~~and/or~~ cool an electrolytic cell body;

an outer frame which is sealed and disposed further surrounding an outside of the jacket, the outer frame containing a space; and

a decompression or a vacuum insulating zone which is formed in the space of the outer frame; and

a thermometer configured to measure temperature of the electrolytic bath,
wherein the jacket includes a pipe configured to circulate a heat exchange medium
and a heating-cooling apparatus configured to heat and cool the heat exchange medium based
on temperature information of the electrolytic bath supplied from the thermometer.

Claim 10 (Previously Presented): An electrolytic apparatus for molten salt according to claim 9, wherein the electrolytic cell further comprises:

a heating part configured to secondarily heat the electrolytic cell body.

Claim 11 (Previously Presented): An electrolytic apparatus for molten salt according to claim 9 further comprising:

an electric insulating material and a gas sealing material disposed between a support member and a cover member for simultaneous electric insulation and gas sealing.

Claim 12 (Previously Presented): An electrolytic apparatus for molten salt according to claim 6, wherein the electrolytic cell is disposed in a box, the box configured to open at an upper part.

Claim 13 (Previously Presented): An electrolytic apparatus for molten salt according to claim 6, wherein the mixed molten salt comprises of hydrogen fluoride.

Claim 14 (New): An electrolytic apparatus according to claim 11, further comprising:

a tube which has one end connected to the heating-cooling apparatus and the other end connected to the pipe,

wherein the electrolytic cell is made of metal and the electrolytic cell is electrically insulated from the heating-cooling apparatus by the tube.

Claim 15 (New): An electrolytic apparatus according to claim 4, further comprising:

a tube which has one end connected to the heating-cooling apparatus and the other end connected to the pipe,

wherein the electrolytic cell is made of metal and the electrolytic cell is electrically insulated from the heating-cooling apparatus by the tube.